



Safeguarding your business

During forklift battery charging volatile gases are released which can create an explosive, flammable gas atmosphere. This gas, if allowed to accumulate, can be easily ignited, resulting in a significant property loss.

The gases produced during battery charging include flammable Hydrogen, and Oxygen. Whilst oxygen is not flammable it is a vital component in the process of combustion. In the presence of an ignition source, such as an electrical spark, explosive ignition and fire are likely to occur. By its nature, battery charging processes are prone to having electrical ignition sources present.

Experience shows us that many serious fire losses can be avoided. We have used our industry knowledge and claims experience to produce this easy to follow guide and self-assessment checklist.

Following are some helpful hints to help you avoid fires caused by forklift battery charging:

Location

- > Battery charging should be conducted in an open area with adequate natural ventilation.
- In confined spaces, consideration should be given to the installation of mechanical ventilation.
- > Combustible materials should be kept well away from the charging area.
- > Floor markings should be used to ensure a clear space of 2-3 metres is maintained around the charging unit at all times.
- Wall mounting of the charging unit will help to protect it from physical damage.
- Where possible, conduct battery charging during work hours.

Maintenance

- Regularly inspect the charging unit for signs of physical damage.
- Inspect all cables for wear or damage to the insulation.
- Ensure cables lay straight during charging and do not have kinks or knots in them.
- Replace damaged cables, do not use electrical tape to cover worn or cut insulation.
- Inspect all cable connectors and plugs, ensure they are not damaged or loose fitting.
- > Ensure that the batteries are in good condition, have adequate fluid levels and the contact points are clean.
- When conducting 'On-board' charging, ensure the forklift manufacturer's instructions are followed in full.
- All maintenance and repair work must be performed by a suitably qualified technician.
- Ensure that the forklift and charging equipment are regularly serviced by suitably qualified technicians.



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Self-assessment checklist Company name Location Simply complete the self-assessment checklist below to help you identify potential hazards. If you answer 'False' to any of the questions below, further consideration and risk management may be required. We recommend you contact your Broker for expert insurance advice. Forklift battery charging True False 1. Forklift battery charging is always performed in a well-ventilated location? True False 2. Combustible materials are kept a minimum of 2 metres away from battery charging? True False 3. Charging units are either wall mounted or otherwise protected from impact or physical damage? True False 4. Where possible, battery charging is performed during normal business hours? True False 5. Charging units are regularly inspected for signs of physical damage? False 6. Cables, cable connectors and plugs are regularly inspected for wear, damage or loose fitting connections? True True False Batteries are maintained in good condition? True False 8. When conducting 'On-board' charging, the forklift manufacturer's instructions are followed in full? All maintenance and repair work is performed by a suitably qualified technician? True False Name This fact sheet has been developed by the team at Acerta to provide you with Signature relevant information and tips DD/MM/YYYY to help you manage risk. As a part of the Guild Group, Acerta has extensive experience in commercial insurance and risk We suggest you file this completed checklist for future reference. management. Together, your Broker and Acerta can work with you to assist in safeguarding your business by managing risk. Victoria New South Wales

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